Check Spool File - Function 40

You can check the spool file for consistency.

When you invoke this function, the Check Spool File window appears.

```
  Time 09:50:44          *** NATURAL SPOOL Administration ***      Date 1997-07-28
  User  SAG                        M e n u                            SPMMEN01
  +---------- Check  Spool File -----------+
  !                                        !         Information
  !   1      Indices of Reports            !
  !   2      Pointers of Reports           !         20 Cross-reference
  !   3      Cluster(s)                    !         21 Statistics
  !   4      Relationships                 !         22 Look at Spool File
  !   5      Sync. Flags for Spool Server  !         23 Callnat Handling
  !                                        !
  !                                        !
  !                                        !         Control Functions
  !                                        !
  !                                        !         40 Check Spool File
  !                                        !         41 Logging Data
  !                                        !         42 Create Test Report(s)
  !   .      Exit                          !
  !                                        !
  !   Command / _  /                       !
  +----------------------------------------+
  Enter command or press PF key.
  Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  Indic Point Clust Relat Sync.                   Canc
```

This function can be useful if reports with status INCO are detected. You may select report indices and report pointers to be checked for consistency.

The Cluster function can be deactivated.

This section covers the following topics:

- Indices of Reports - Function 40.1
- Pointers of Reports - Function 40.2
- Cluster - Function 40.3
- Relationships - Function 40.4
- Synchronize Flags for Spool Server - Function 40.5
- Common Memory Pool - Function 40.6
- Parameter Module NAFB2P*n* - Function 40.7
- Status of Spool Server - Function 40.8

Note:
Under BS2000/OSD, the Check Spool File window provides additional functions.

Indices of Reports - Function 40.1

When you invoke this function, the following checks are performed:

- Each index record is checked for a corresponding detail record. If a detail record exists, a check is made whether its status is "In Use".
- Each detail record with status "In Use" is checked for a corresponding index record.

```
 Time 09:50:44         *** NATURAL SPOOL Administration ***      Date 1997-07-28
 User  SAG                        M e n u                         SPMMEN01
 +---------- Check  Spool File -----------+
 !                                        !        Information
 ! +------------------------------------+ !
 ! I INDEX Check          completedI !        20 Cross-reference
 ! +------------------------------------+ !        21 Statistics
 ! +------------------------------------+ !        22 Look at Spool File
 ! I DETAIL Check         completedI !        23 Callnat Handling
 ! +------------------------------------+ !
 ! +------------------------------------+ !
 ! I All Records          completedI !        Control Functions
 ! +------------------------------------+ !
 ! +------------------------------------+ !        40 Check Spool File
 ! I Check normally       completedI !        41 Logging Data
 ! +------------------------------------+ !        42 Create Test Report(s)
 !                                        !
 !                                        !
 !    Command / 1  /                      !
 +----------------------------------------+
 Press 'ENTER' to continue
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit  Indic Point Clust Relat Sync.                   Canc
```

In case of an error, a protocol is written to the spool file. You will then be asked for the name of a logical printer.

Pointers of Reports - Function 40.2

When you invoke this function, the following checks are performed for each detail group with status "In Use" which has a pointer to another group:

- A check is made whether the group pointed to exists.
- If so, a check is made if its status is also "In Use".
- If so, a check is made whether the job numbers are the same.

```
 Time 11:46:38        *** NATURAL SPOOL Administration ***       Date 1997-08-12
 User  SAG                          M e n u                              SPMMEN01
 +---------- Check  Spool File -----------+
 !                                        !        Information
 ! +-----------------------------------+  !
 ! I POINTER: - 1           completedI  !        20 Cross-reference
 ! +-----------------------------------+  !        21 Statistics
 ! +-----------------------------------+  !        22 Look at Spool File
 ! I  ***   Check normally    completedI  !        23 Callnat Handling
 ! +-----------------------------------+  !
 !                                        !
 !                                        !        Control Functions
 !                                        !
 !                                        !        40 Check Spool File
 !                                        !        41 Logging Data
 !                                        !        42 Create Test Report(s)
 !   .     Exit                           !
 !                                        !
 !    Command / 2  /                      !
 +----------------------------------------+
 Press 'ENTER' to continue
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit  Indic Point Clust Relat Sync.                     Canc
```

In case of an error, a protocol is written to the spool file. You will then be asked for the name of a logical printer.

Cluster - Function 40.3

When you invoke this function, the integrity of the clusters is checked.

Note:
Usage of clusters can be deactivated with Function 30.5. In this case, Function 40.3 cannot be invoked.

This function reads all objects and checks whether they belong to existing clusters. It also checks whether each object belongs to exactly one cluster.

```
 Time 13:15:01          *** NATURAL SPOOL Administration ***      Date 1997-09-04
 User  SAG                          M e n u                            SPMMEN01
 +---------- Check  Spool File -----------+
 !                                        !           Information
 !   1      Indices of Reports            !
 !   2      Pointers of Reports           !        20 Cross-reference
 !   3      Cluster(s)                    !        21 Statistics
 ! +--------------------------------+     !        22 Look at Spool File
 ! I  ***  Check normally    completedI   !        23 Callnat Handling
 ! +--------------------------------+     !
 !                                        !
 !                                        !           Control Functions
 !                                        !
 !                                        !        40 Check Spool File
 !                                        !        41 Logging Data
 !                                        !        42 Create Test Report(s)
 !   .      Exit                          !
 !                                        !
 !    Command / 3  /                      !
 +----------------------------------------+
 Press 'ENTER' to continue
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit  Indic Point Clust Relat Sync.                    Canc
```

In case of an error, a protocol is written to the spool file. You will then be asked for the name of a logical printer.

Relationships - Function 40.4

When you invoke this function, the Check/Recover Relationships window appears.

```
  Time 10:07:42        *** NATURAL SPOOL Administration ***     Date 1997-07-28
  User  SAG                            M e n u                          SPMMEN01
  +---- Check/ Recover  Relationships -----+
  !                                        !       Information
  !   1      Check                         !
  !   2      Recover with confirmation     !       20 Cross-reference
  !   3      Recover without confirmation  !       21 Statistics
  !                                        !       22 Look at Spool File
  !                                        !       23 Callnat Handling
  !                                        !
  !                                        !
  !                                        !       Control Functions
  !   .      Exit                          !
  !                                        !       40 Check Spool File
  !                                        !       41 Logging Data
  !                                        !       42 Create Test Report(s)
  !                                        !
  !                                        !
  !    Command / _  /                      !
  +----------------------------------------+
  Enter command or press PF key.
  Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit  Check Recov Recov                               Canc
```

You can choose whether you want to check the relationships (Option 1) or whether you want to recover them with or without confirmation (Options 2 and 3).

The following checks are performed for all three options:

- First, a bottom-to-top check is performed. The check starts with physical printers. Next, all allocations, logical printers and user profiles are checked. However, you can specify that the check is to start with a specific object type. For example, when you specify logical printer as start object, only the relation between logical printers and user profiles is checked.
  For each object, a check is made whether it is referenced in one of the corresponding object types. If this is not the case, this object may be deleted.
- Next, a top-to-bottom check is performed. The check starts with user profiles. A check is made whether the objects referenced in this object exist on the spool file. If not, this is either logged (see Option 1) or the object is modified (see Options 2 and 3).

Since this function causes a large number of Adabas calls, it should only be started when an error occurs (for example, unexplainable printouts on wrong devices). It is recommended that you first use Option 1 (check).

Check Relationships - Option 1

When you select this option, you can choose a start value for the bottom-to-top check in a window: printer(s), allocation table or logical printer(s).

```
 Time 10:07:42         *** NATURAL SPOOL Administration ***      Date 1997-07-28
 User  SAG                         M e n u                            SPMMEN01
 +---- Check/ Recover  Relationships -----+
 ! select type for start bottom-top check !        Information
 !                                         !
 !  1       Printer(s)                     !      20 Cross-reference
 !  2       Allocation Table               !      21 Statistics
 !  3       Logical Printer(s)             !      22 Look at Spool File
 !                                         !      23 Callnat Handling
 !                                         !
 !                                         !
 !                                         !        Control Functions
 !                                         !
 !  .    Exit                              !      40 Check Spool File
 !                                         !      41 Logging Data
 !                                         !      42 Create Test Report(s)
 !                                         !
 !                                         !
 !  Typ      / _ /                         !
 +-----------------------------------------+
 Enter command or press PF key.
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Menu  Exit   Prin  Allo  Logi                             Canc
```

The result of the check is printed. You are asked for the name of a logical printer.

Recover Relationships with Confirmation - Option 2

When you select this option, you can choose a start value for the bottom-to-top check in a window: printer(s), allocation table or logical printer(s).

The relationship is checked. Objects that are not related to another object are deleted. Objects that refer to non-existing objects are modified. You have to confirm the deletion/modification for each object.

Recover Relationships without Confirmation - Option 3

When you select this option, you can choose a start value for the bottom-to-top check in a window: printer(s), allocation table or logical printer(s).

The relationship is checked. Objects that are not related to another object are automatically deleted. Objects that refer to non-existing objects are automatically modified. You are not asked to confirm the deletion/modification for each object.

Synchronize Flags for Spool Server - Function 40.5

The spool server options you specify (see Function 30.5) result in a synchronization of the spool file. To prevent that different spool servers that are currently working on the spool file execute the same function, the spool server records the date and time when a function was executed. Before a spool server executes the same function once more, it checks whether the defined time interval has passed.

When you invoke this function and BS2000/OSD has been defined as an operating system (see Spool file Options - Option 1), the Check Sync. Flags for Spool window appears (see below). When only CICS and/or IMS/DC have been defined as operating systems, this window does not appear and the window for Option 1 (Retention Period) immediately appears.

```
 Time 10:21:45        *** NATURAL SPOOL Administration ***     Date 1997-07-28
 User  SAG                           M e n u                         SPMMEN01
 +----- Check  Sync. Flags for Spool -----+
 !                                        !      Information
 !   1      Retention Period              !
 !   2      Restart                       !      20 Cross-reference
 !   3      Time Option                   !      21 Statistics
 !   4      Monitor                       !      22 Look at Spool File
 !                                        !      23 Callnat Handling
 !                                        !
 !                                        !
 !                                        !      Control Functions
 !                                        !
 !                                        !      40 Check Spool File
 !                                        !      41 Logging Data
 !                                        !      42 Create Test Report(s)
 !   .      Exit                          !
 !                                        !
 !   Command /  _  /                      !
 +----------------------------------------+
 Enter command or press PF key.
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit  Reten Resta Time  Monit                          Canc
```

The Restart and Time Option functions can be deactivated.

You can check the definitions and the current records on the spool file. If required, you can modify the values on the spool file.

Retention Period - Option 1

When you select this option, the current status and synchronization values for the Delete function (see General Spool Server Options - Option 3) are shown.

```
 Time 11:50:14        *** NATURAL SPOOL Administration ***     Date 1997-08-15
 User  SAG                    Server Synchronization                SPMCHE91

 +----------------------- Information -------------------------------------+
 I                                                                         I
 I Status .      Delete function is activated                             I
 I                                                                         I
 I Used Timeinterval      0030 (Minutes)                                   I
 I                                                                         I
 I Last check executed at 1997-08-13 / 12:31:45                           I
 I                                                                         I
 I Next check starting with object      --                                I
 +-------------------------------------------------------------------------+

 +----------------------- Functions ---------------------------------------+
 I  _  delete date/time of last check                                      I
 I  _  set   date/time of last check to current date/time                  I
 I                                                                         I
 I  _  exit function                                                       I
 +-------------------------------------------------------------------------+
 Please mark function.
 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  Menu  Exit                                                Canc
```

If required, you can delete the date and time of the last check or set it to the current date and time.

Restart - Option 2

When you select this option, the current status and synchronization values for the Restart function (see BS2000/OSD Options) are shown.

```
Time 11:56:59          *** NATURAL SPOOL Administration ***       Date 1997-08-15
User  SAG                    Server Synchronization                  SPMCHE71

+------------------------ Information ------------------------------------+
I                                                                        I
I Status:       Restart function not activated                          I
I                                                                        I
I Max. No. of start requests 0               using interval 0010 (Minutes)  I
I                                                                        I
I Last check executed at 1997-08-13 / 12:31:45                          I
I                                                                        I
I Next check starting with object       --                              I
+------------------------------------------------------------------------+

+------------------------ Functions -------------------------------------+
I  _   delete date/time of last check                                    I
I  _   reset  date/time of last check to current date/time              I
I  _   delete start value                                                I
I  _   exit function                                                     I
+------------------------------------------------------------------------+
Please mark function.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help  Menu  Exit                                                   Canc
```

If required, you can delete the date and time of the last check, set it to the current date and time or delete the start value for the next check.

Time Option - Option 3

When you select this option, the current status and synchronization values for the Time function (see BS2000/OSD Options) are shown.

```
 Time 11:57:29        *** NATURAL SPOOL Administration ***      Date 1997-08-15
 User  SAG                    Server Synchronization                  SPMCHE71

 +------------------------- Information -------------------------------------+
 I                                                                          I
 I Status:       Time function not activated                               I
 I                                                                          I
 I Max. No. of start requests 0              using interval 0010 (Minutes)  I
 I                                                                          I
 I Last check executed at 1997-08-13 / 12:31:45                            I
 I                                                                          I
 I Next check starting with object       --                                I
 +--------------------------------------------------------------------------+

 +------------------------- Functions --------------------------------------+
 I  _  delete date/time of last check                                       I
 I  _  reset  date/time of last check to current date/time                  I
 I  _  delete start value                                                   I
 I  _  exit function                                                        I
 +--------------------------------------------------------------------------+
 Please mark function.
 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit                                                  Canc
```

If required, you can delete the date and time of the last check, set it to the current date and time or delete the start value for the next check.

Monitor - Option 4

When you select this option, the current synchronization values of the BS2000/OSD monitor are shown.

```
 Time 12:05:18         *** NATURAL SPOOL Administration ***      Date 1997-08-15
 User  SAG                     Server Synchronization                   SPMCHEM1

 +------------------------ Information ------------------------------------+
 I                                                                        I
 I                                                                        I
 I Last check from Monitor for Reports on this Spool file                 I
 I                                                                        I
 I                                                                        I
 I at    --      /   --        by Task Sequence Number (TSN)   --         I
 I                                                                        I
 I                                                                        I
 +------------------------------------------------------------------------+

 +------------------------ Functions -------------------------------------+
 I  _  delete date/time of last check                                     I
 I  _  set   date/time of last check to current date/time                 I
 I                                                                        I
 I  _  exit function                                                      I
 +------------------------------------------------------------------------+
 Please mark function.
 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit                                                Canc
```

If required, you can delete the date and time of the last check or set it to the current date and time.

Common Memory Pool - Function 40.6

This function is only available under BS2000/OSD.

When you invoke this function, information about the size and contents of the common memory pool is shown.

```
  Time 12:00:29          *** NATURAL SPOOL Administration ***      Date 1997-08-15
  User  IBM011                  Common Memory Pool                      SPMCHE21


   +--------- Function  ------------+           +--------- Information ---------+
   I                               I           I Pool ID .............  NAF3ER1 I
   I 1  Display Common Memory Pool  I           I Pool address ........ 001E0000 I
   I                               I           I Pool size  .........     64 KB I
   I 2  Reset Common Memory Pool    I           I Pool locked by task .....   NO I
   I                               I           I-------------------------------I
   I .  Exit                        I           I No. events in bourse  1       I
   I                               I           I-------------------------------I
   I                               I           I Max. no. of entries.... 002047 I
   I                               I           I                               I
   I                               I           I No. of free entries ... 002046 I
   I    Command / _ /               I           I No. of used entries ... 000001 I
   +-------------------------------+           +-------------------------------+


  Please mark function.
  Command ===>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit                                                    Canc
```

You can display and/or reset the common memory pool. When you select one of these options, you have to enter the password for the spool file.

Display Common Memory Pool - Option 1

When you select this option, the following screen appears:

```
 Time 12:09:28          *** NATURAL SPOOL Administration ***      Date 1997-08-15
 User  IBM011                Entries in Common Memory Pool             SPMCHE41


  Entry No.    Address    Phy.Prtr  FSPOOL       FNAT         FSEC         TSN
  ---------    --------   --------  -----------  -----------  ----------- -----
  1            001E0004   DR1171    7/33         7/32         7/32
















 Press 'ENTER' to continue
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
           Menu  Exit                                                    Canc
```

Reset Common Memory Pool - Option 2

When you select this option, the following window appears:

```
 Time 12:10:16          *** NATURAL SPOOL Administration ***     Date 1997-08-15
 User  IBM011                    Common Memory Pool                       SPMCHE21
                                       +--------------------------------------+
                                       !                                      !
                                       ! When resetting the Common Memory Pool, !
   +--------- Function  ------------+  !                                      !
   I                              I  !    - all entries will be removed from  !
   I 1  Display Common Memory Pool I  !      the common memory pool           !
   I                              I  !                                        !
   I 2  Reset Common Memory Pool   I  !                                       !
   I                              I  !  - all printers, which are defined     !
   I .  Exit                       I  !    on spoolfile 7/33        and have   !
   I                              I  !    an entry within the common memory   !
   I                              I  !    pool, are reset to status FREE       !
   I                              I  !                                        !
   I                              I  !                                        !
   I   Command / 2 /               I  !                                       !
   +------------------------------+  ! Start Reset Function ( Y /  N ) .. N   !
                                       !                                      !
                                       +--------------------------------------+

 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
       Help  Menu  Exit                                              Canc
```

To reset the common memory pool, specify Y and press ENTER.

All entries are then removed from the common memory pool, and all printers with an entry in the common memory pool are reset to status FREE.

Parameter Module NAFB2P*n* - Function 40.7

This function is only available under BS2000/OSD.

When you invoke this function, data from the NAF parameter module are shown.

```
 Time 12:00:52        *** NATURAL SPOOL Administration ***     Date 1997-08-15
 User  IBM011                     M e n u                          SPMMEN01
 +------------- Parameters for Intertask Communication --------------+
 I Event ID1 NAF3ER1    Event ID2 NAF3ER2   MONITOR Event ID MONEVT1    I
 I CMP Name  NAF3ER1    CMP Size     64 KB      Usage of ISO NO         I
 I BS2 Form    --       RSO Form     --         RSO Protocol OFF        I
 I FSEC     NO          FNAT     YES            MAXERR       5          I
 +-------------------------------------------------------------------
 +------------- Parameters for Monitor Task -------------------------+
 I STACK=(LOGON SYSPRINT;SVPMON01)                                   I
 +-------------------------------------------------------------------+
 +------------- Parameters for Spool Server(s) ----------------------+
 I No DCAM App  NATURAL Stack Data                                   I
 I  1 SP01      STACK=(LOGON SYSPRINT;SVPBS201)                      I
 I  2 SP02      STACK=(LOGON SYSPRINT;SVPBS201)                      I
 I  3 SP03      STACK=(LOGON SYSPRINT;SVPBS201)                      I
 I  4 SP04      STACK=(LOGON SYSPRINT;SVPBS201)                      I
 I  5 SP05      STACK=(LOGON SYSPRINT;SVPBS201)                      I
 +-------------------------------------------------------------------+


 Enter command or press PF key.
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
           Menu  Exit                        -       +                    Canc
```

Status of Spool Server - Function 40.8

This function is only available under BS2000/OSD.

When you invoke this function, the current status of the spool server(s) and monitor task is shown.

```
 Time 12:01:11          *** NATURAL SPOOL Administration ***     Date 1997-08-15
 User  IBM011                       M e n u                          SPMMEN01
 +--------------------- Status of Spoolserver(s) ---------------------+
 !                                                                    !
 !  current status of Monitor ........... inactive                   !
 !  ----------------------------------------------------------------- !
 !  current status of Spool Server(s)                                 !
 !                                                                    !
 !   1 DCAM NAME    SP01    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   2 DCAM NAME    SP02    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   3 DCAM NAME    SP03    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   4 DCAM NAME    SP04    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   5 DCAM NAME    SP05    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   6 DCAM NAME    SP06    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   7 DCAM NAME    SP07    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   8 DCAM NAME    SP08    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !   9 DCAM NAME    SP09    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !  10 DCAM NAME    SP10    TYPE  NEAR   INACTIVE  TYPE  ISO   INACTIVE !
 !  ----------------------------------------------------------------- !
 +--------------------------------------------------------------------+
 Enter command or press PF key.
 Command ===>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
            Menu  Exit                      -      +                     Canc
```